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APPLICATION NO.	FIL	ING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/709,461	0:	5/06/2004	Chi-Ming Hsiao	MTKP0067USA1	3460
27765	7590	09/20/2005		EXAMINER	
NORTH A	MERICA :	INTELLECTUAI	LAM, TUAN THIEU		
P.O. BOX 5	06				
MERRIFIEI	D, VA 2	2116	ART UNIT	PAPER NUMBER	
	•			2816	

DATE MAILED: 09/20/2005

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Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
		10/709,461	HSIAO ET AL.			
	Office Action Summary	Examiner	Art Unit			
		Tuan T. Lam	2816			
Period fo	The MAILING DATE of this communication app or Reply	pears on the cover sheet with the c	orrespondence address			
WHIC - Exter after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANSIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Operiod for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE.	l. ely filed he mailing date of this communication. O (35 U.S.C. § 133).			
Status						
2a)⊠	Responsive to communication(s) filed on <u>07 At</u> This action is FINAL . 2b) This Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro				
Dispositi	on of Claims					
5)⊠ 6)⊠ 7)⊠ 8)□	Claim(s) <u>1,2,4-12 and 14-38</u> is/are pending in t 4a) Of the above claim(s) is/are withdrav Claim(s) <u>2,6-12 and 16-20</u> is/are allowed. Claim(s) <u>4-5, 14-15, 21-22, 26, 30-31 and 35</u> is Claim(s) <u>1,23-25,27-29,32-34 and 36-38</u> is/are Claim(s) are subject to restriction and/or	wn from consideration. s/are rejected. objected to.				
Applicati	on Papers					
10)⊠	The specification is objected to by the Examine The drawing(s) filed on <u>06 May 2004</u> is/are: a) Applicant may not request that any objection to the Replacement drawing sheet(s) including the correction to the other contents of the oath or declaration is objected to by the Example 1.	☑ accepted or b) ☐ objected to b drawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority u	ınder 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
2) Notice 3) Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date	4) Interview Summary (Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:	te			

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DETAILED ACTION

This is a response to the amendment filed 8/7/2005. Claims 1-2, 4-12 and 14-38 are pending and are under examination.

Claim Objections

1. Claim 1 is objected to because of the following informalities: there are two periods at the end of the claim. Appropriate correction is required.

Claim Rejections - 35 USC § 112

2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

3. Claims 4-5 and 14-15 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 4-5 are indefinite because they depend on canceled claim 3.

Claims 14-15 are indefinite because they depend on canceled claim 13.

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

2. Claims 21-22, 26, 30-31 and 35 are rejected under 35 U.S.C. 103(a) as being unpatentable over applicant's cited prior art figures 1-3 in view of Carroll (USP 5,130,571), prior art of record.

Applicant's cited prior art figure 1 shows an oscillator circuit (10) comprising a plurality of switched capacitor circuits (16). Each switched capacitor circuit (shown in figure 3) comprises a single positive side switch transistor (42) and a capacitor (40) and a corresponding negative side switch transistor (46) and a capacitor (44) and a center switch (48). The single switch transistor selectively coupled a positive/negative side first node to a positive/negative side second node depending upon a control signal (SW).

Applicant's cited prior art switched capacitor circuit figure 3 shows a single switch transistor instead of a plurality of differently sized switch transistors sequentially switched off with a smallest switch transistor being switched off last as called for in claims 21-22, 26, 30-31 and 35.

Figure 4 of Carroll reference discloses a switched capacitor circuit having a plurality of differently sized switch transistors (T24, T22, column 3, lines 1-5). The transistors are sequentially switched off with the smallest (T22) being switched off last to obtain a fast acquisition while maintaining a low offset voltage. Therefore, it would have been obvious to a person skilled in the art at the time the invention was made to replace applicant's single positive and negative side switch transistor shown in figure 3 with plurality of differently sized switch transistors sequentially switched off with a smallest switch transistor being switched off last for the purpose of increasing speed with a minimal offset voltage.

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Response to Arguments

3. Applicant's arguments filed 8/7/2005 have been fully considered but they are not persuasive. Applicant stated that newly cited claims 21-38 should be allowable because those claims include allowable features as noted in previous Office actions are not persuasive. Newly claim 21 is a combination of claims 1-2 and 6 of the amendment filed 4/15/2005. In response to that amendment claims 1-2 and 6 were rejected under application's cited prior art figure 3 and Carroll reference. Therefore, the newly cited claims could not be allowed as indicated by the applicant. See above for the detailed rejection of the newly recited claims.

Allowable Subject Matter

- 4. Claims 2, 6-12 and 16-20 are presently allowed.
- 5. Claim 1 is objected to but would be allowable if rewritten to overcome the objection noted in the above.
- 6. Claims 4-5 and 14-15 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action.
- 7. Claims 23-25, 27-29, 32-34 and 36-38 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tuan T. Lam whose telephone number is 571-272-1744. The examiner can normally be reached on Monday to Friday (7:30 am to 6:00pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, TIMOTHY P. CALLAHAN can be reached on 571-272-1740. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Tuan T. Lam Primary Examiner

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9/18/2005